

Notice of Allowability

Application No.

10/809,964

Examiner

Joseph Lauture

Applicant(s)

LOPEZ, ESTELL

Art Unit

2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to correspondence filed 03/26/04.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ The drawings filed on 26 March 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In claim 1, line 1; and, claim 2, line 1: replace "The method" with -- A method --.

In claim 1, line 1, replace "in conversion" with -- as it is being converted--.

In claim 1, line 2; and claim 2, line ~~4~~⁵: replace "the analog-to-digital" with -- an analog-to-digital--.

In claim 1, line 5, delete "carrier".

In claim 2, lines 7, 18, 21 and 26; and claim 3, lines 3, 7 and 9: delete "selectable".

In claim 2, line 8, replace "in optimizing" by --by optimizing--.

In claim 2, line 15, replace "resulting" with --a resulting--.

In claim 2, line 19, replace "the desired" with --a desired--.

In claim 2, line 20, replace "the ratio" with -- a ratio --.

In claim 2, line 21, replace "the frequency" with --a frequency--.

In claim 2, lines 21 and 28-29, replace "the phase" with -- a phase --.

In claim 2, line 28, replace "the computer" with --a computer--.

In claim 3, line 1, replace "phase" with -- a phase--.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the prior arts of record fail to teach a method of amplifying an analog signal being converted to a digital signal so as to exploit a range of an analog to digital converter throughout the signal through dynamic gain control, comprising the following steps of:

amplifying the signal; selectively amplifying segments of a carrier signal; digitizing said carrier signal; adjusting amplification achieved in selectively amplifying segments of a carrier signal in a gain scaling stage such that a resulting amplification of said signal segments is a power of two; analyzing said amplified signal; reversing said selective amplification of said signal segments selectively amplified by shifting bits in a digital representation of the signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Lauture, whose telephone number is (571) 272-1805. The examiner can normally be reached Monday thru Friday between 9:30 am and 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached at (571) 272-1812. The fax number for the organization to which this application is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571) 272-1562.

Joseph Lauture
Group: 2819
Date: 07/02/2004



Brian Young
Primary Examiner